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1/20


105

```
<?xml version="1.0"?>
<purchaseOrder orderDate="1999-10-20">
  <shipTo country="US">
    <name>Alice Smith</name>
    <street>123 Maple Street</street>
    <city>Mill Valley</city>
    <state>CA</state>
    <zip>90952</zip>
  </shipTo>
  <billTo country="US">
    <name>Robert Smith</name>
    <street>8 Oak Avenue</street>
    <city>Old Town</city>
    <state>PA</state>
    <zip>95819</zip>
  </billTo>
  <comment>Hurry, my lawn is going wild!</
comment>
  <items>
    <item partNum="872-AA">
      <productName>Lawnmower</
productName>
      <quantity>1</quantity>
      <USPrice>148.95</USPrice>
      <comment>Confirm this is electric</
comment>
    </item>
  </items>
</purchaseOrder>
```

FIG. 1A
(Prior Art)

2/20

110



```
<note>  
<to>Fred</to>  
<from>Mary</from>  
<heading>Reminder</heading>  
<body>Don't forget me this weekend!</body>  
</note>
```

FIG. 1B
(Prior Art)

3/20

205

```
<xsd:schema xmlns:xsd="http://www.w3.org/
2001/XMLSchema">

  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      Purchase order schema for Example.com.
      Copyright 2000 Example.com. All rights reserved.
    </xsd:documentation>
  </xsd:annotation>

  <xsd:element name="purchaseOrder"
type="PurchaseOrderType"/>

  <xsd:element name="comment" type="xsd:string"/>

  <xsd:complexType name="PurchaseOrderType">
    <xsd:sequence>
      <xsd:element name="shipTo" type="USAddress"/
>
      <xsd:element name="billTo" type="USAddress"/>
      <xsd:element ref="comment" minOccurs="0"/>
      <xsd:element name="items" type="Items"/>
    </xsd:sequence>
    <xsd:attribute name="orderDate" type="xsd:date"/>
  </xsd:complexType>

  :
```

FIG. 2A
(Prior Art)

4/20

205

```

      :
      :
<xsd:complexType name="USAddress">
  <xsd:sequence>
    <xsd:element name="name" type="xsd:string"/>
    <xsd:element name="street" type="xsd:string"/>
    <xsd:element name="city" type="xsd:string"/>
    <xsd:element name="state" type="xsd:string"/>
    <xsd:element name="zip" type="xsd:decimal"/>
  </xsd:sequence>
  <xsd:attribute name="country"
type="xsd:NMTOKEN"
    fixed="US"/>
</xsd:complexType>

<xsd:complexType name="Items">
  <xsd:sequence>
    <xsd:element name="item" minOccurs="0"
maxOccurs="unbounded">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="productName"
type="xsd:string"/>
          <xsd:element name="quantity">
            <xsd:simpleType>
              <xsd:restriction base="xsd:positiveInteger">
                <xsd:maxExclusive value="100"/>
              </xsd:restriction>
            :
            :
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>

```

FIG. 2B
(Prior Art)

5/20

205

```

      :
      :
    </xsd:simpleType>
  </xsd:element>
  <xsd:element name="USPrice"
type="xsd:decimal"/>
    <xsd:element ref="comment" minOccurs="0"/>
    <xsd:element name="shipDate" type="xsd:date"
minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="partNum" type="SKU"
use="required"/>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>

<!-- Stock Keeping Unit, a code for identifying
products -->
<xsd:simpleType name="SKU">
  <xsd:restriction base="xsd:string">
    <xsd:pattern value="\d{3}-[A-Z]{2}"/>
  </xsd:restriction>
</xsd:simpleType>

</xsd:schema>

```

FIG. 2C
(Prior Art)

6/20

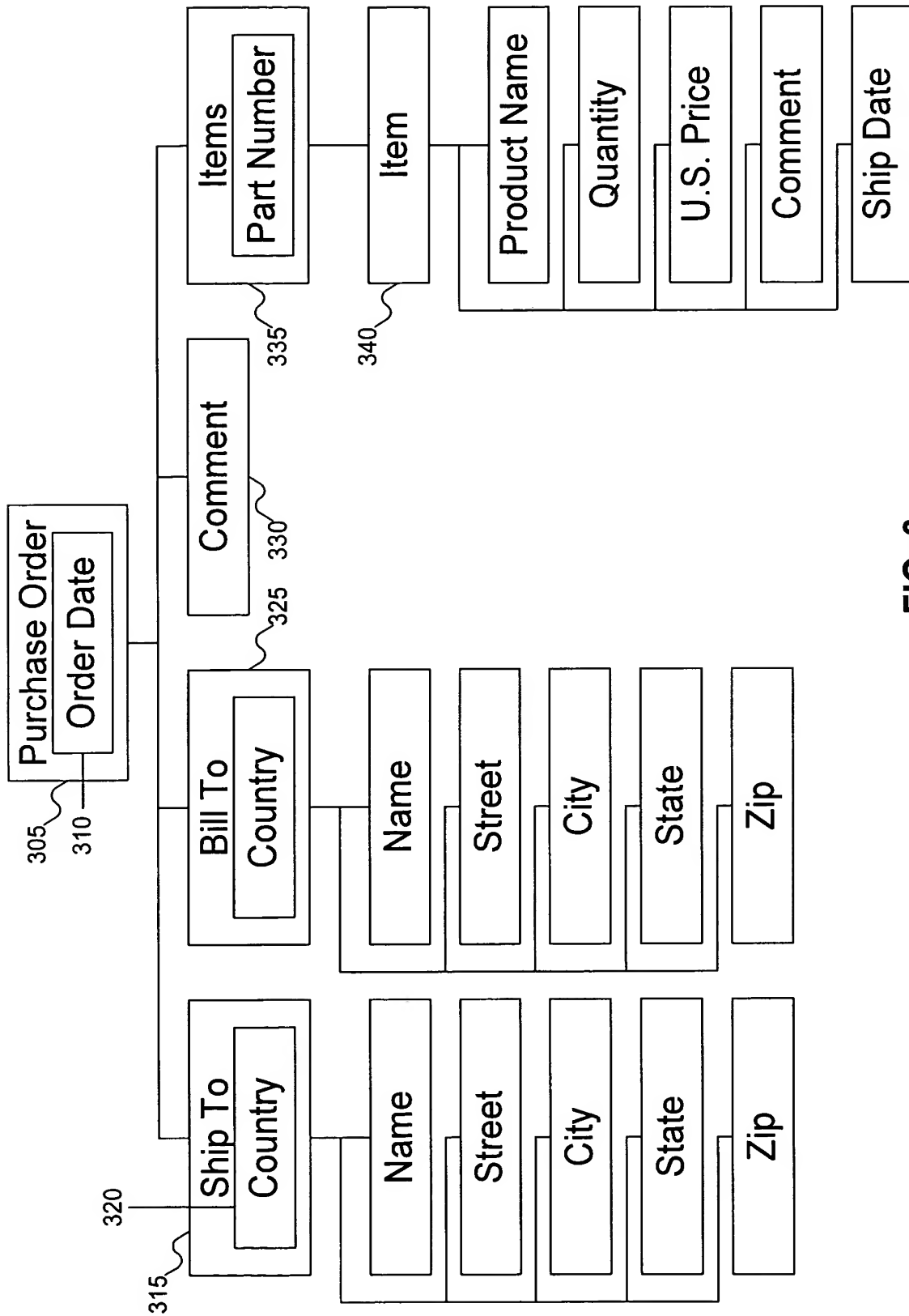


FIG. 3
(Prior Art)

7/20

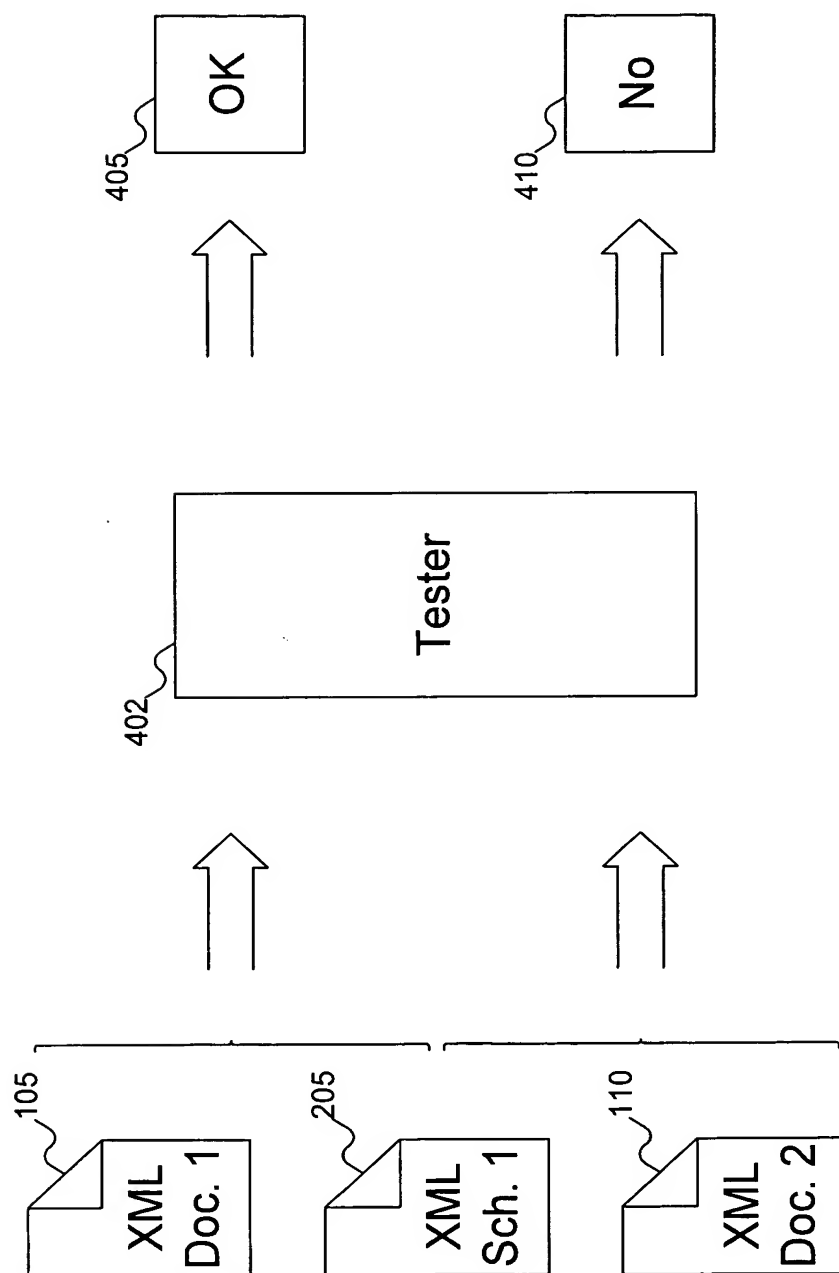


FIG. 4
(Prior Art)

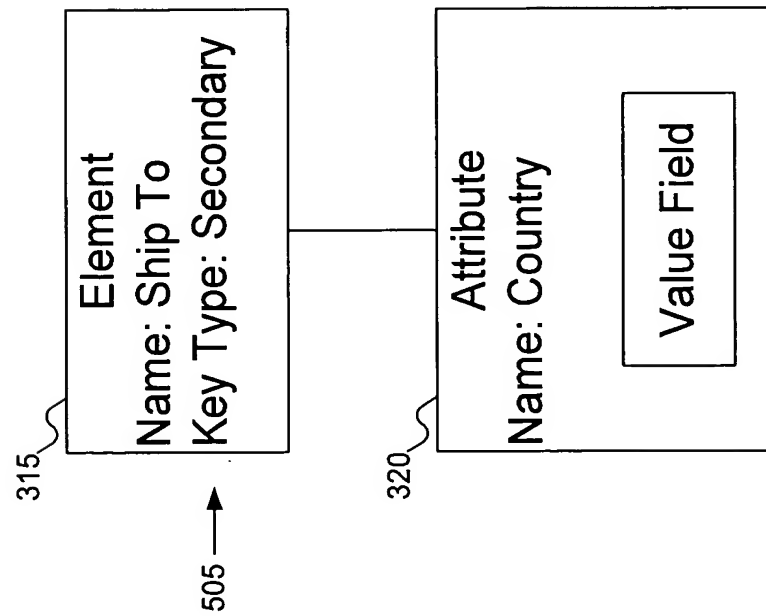


FIG. 5A

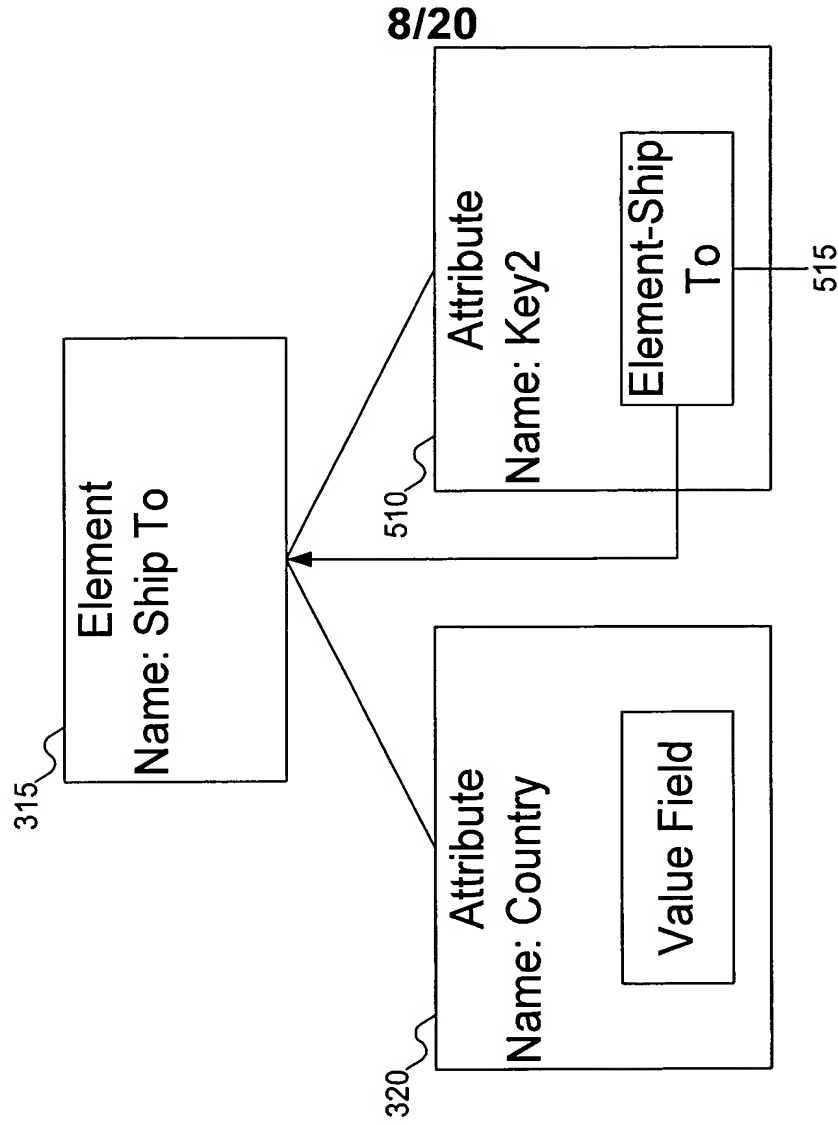
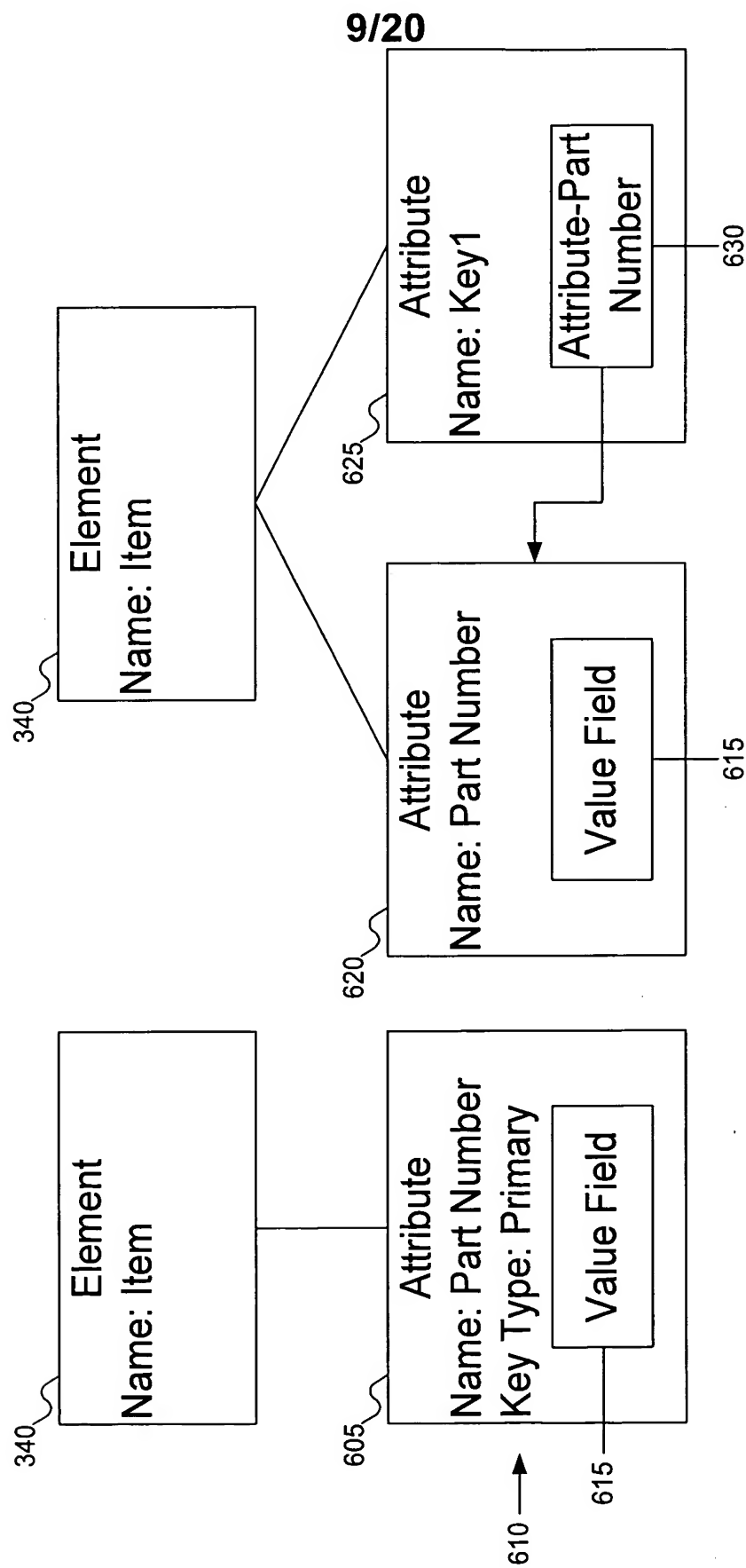


FIG. 5B



10/20

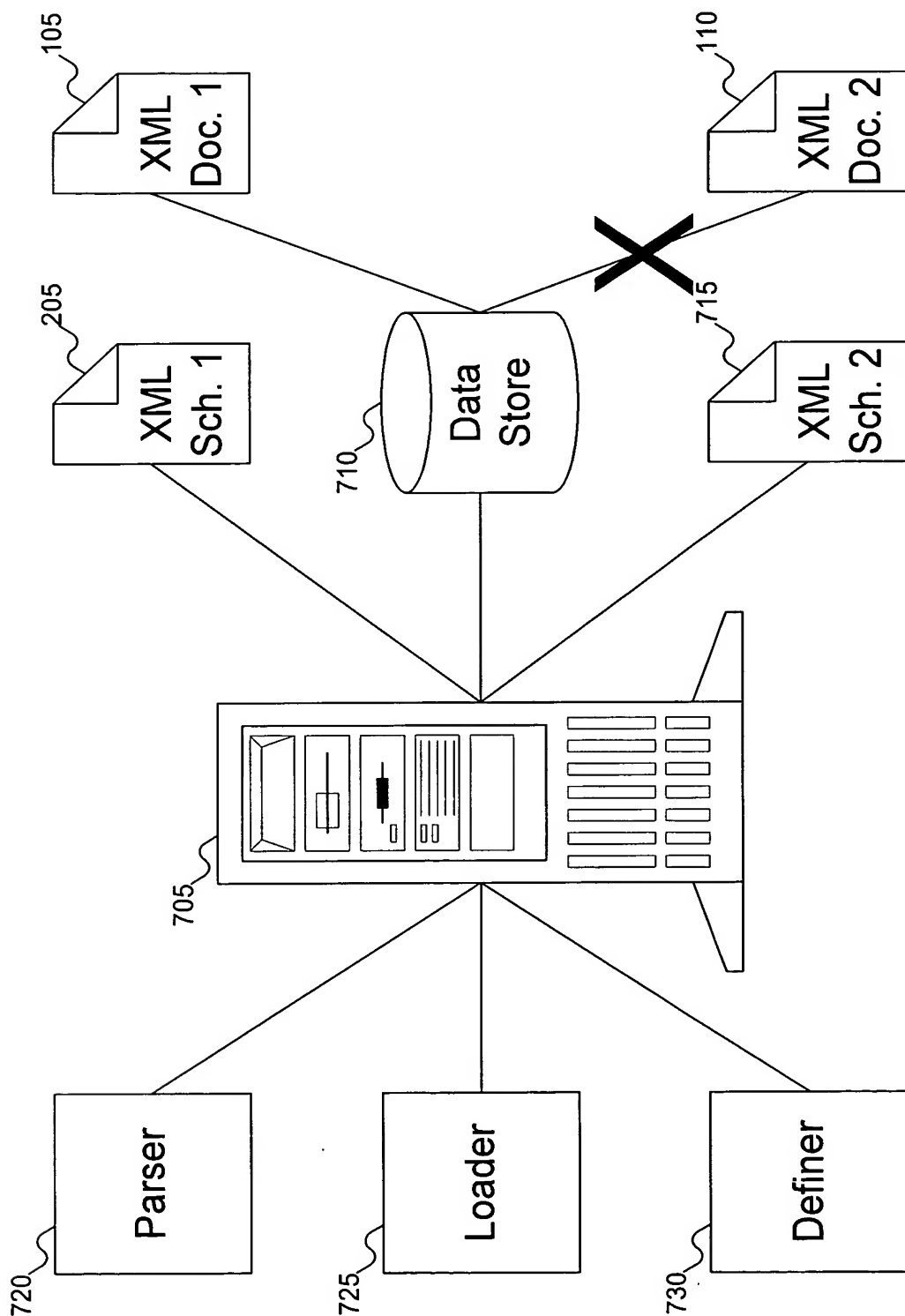


FIG. 7

11/20

810

710

805

Data Store

Order Date	Ship To (S)	Bill To	Comment	Items
20 Oct 1999	Alice Smith	Robert Smith	Hurry, my lawn...	
⋮				

FIG. 8

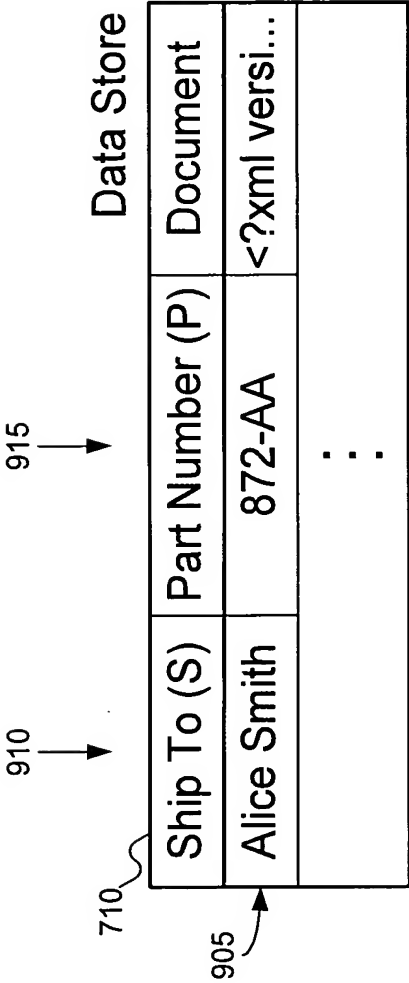


FIG. 9

13/20

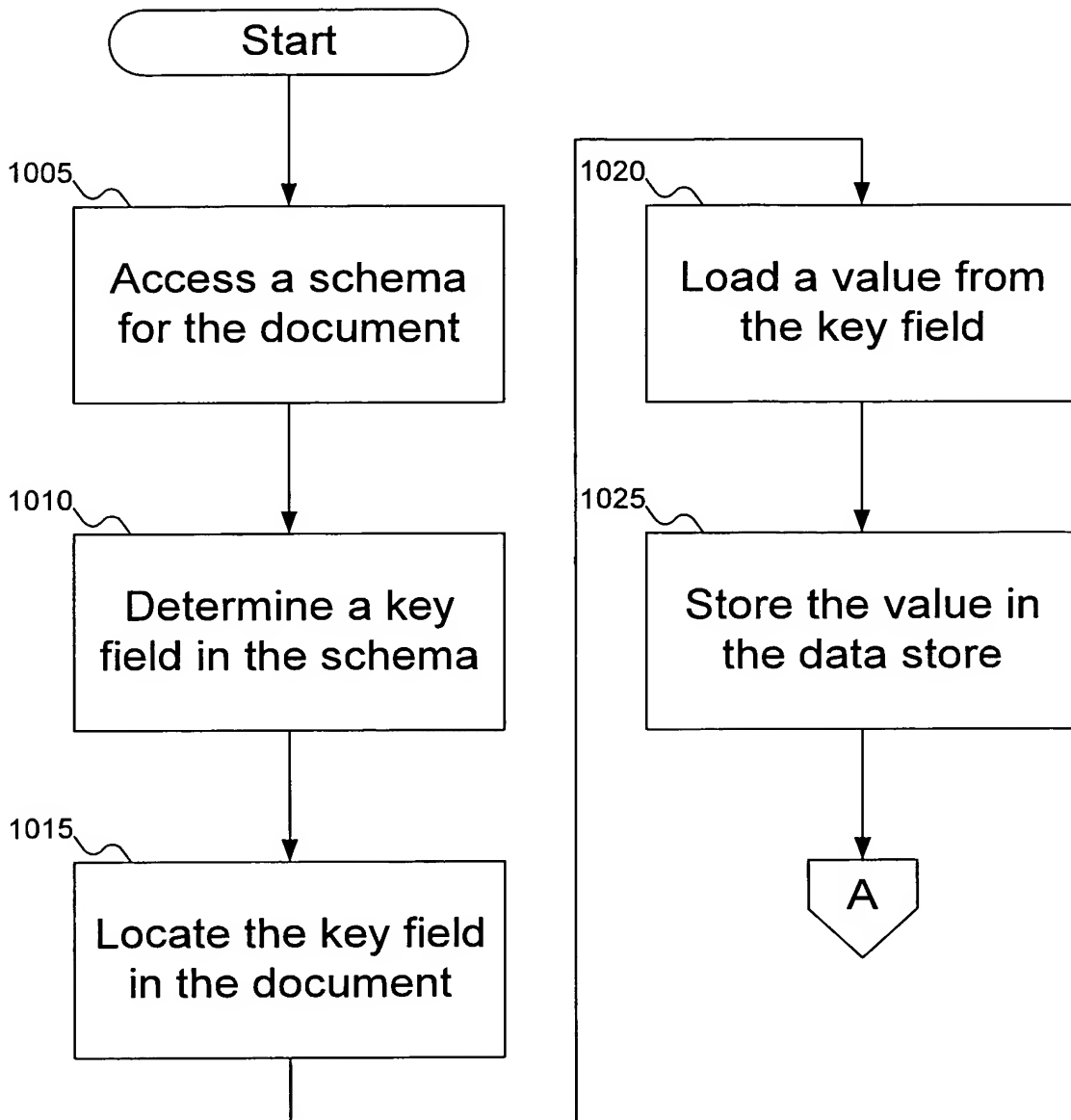


FIG. 10A

14/20

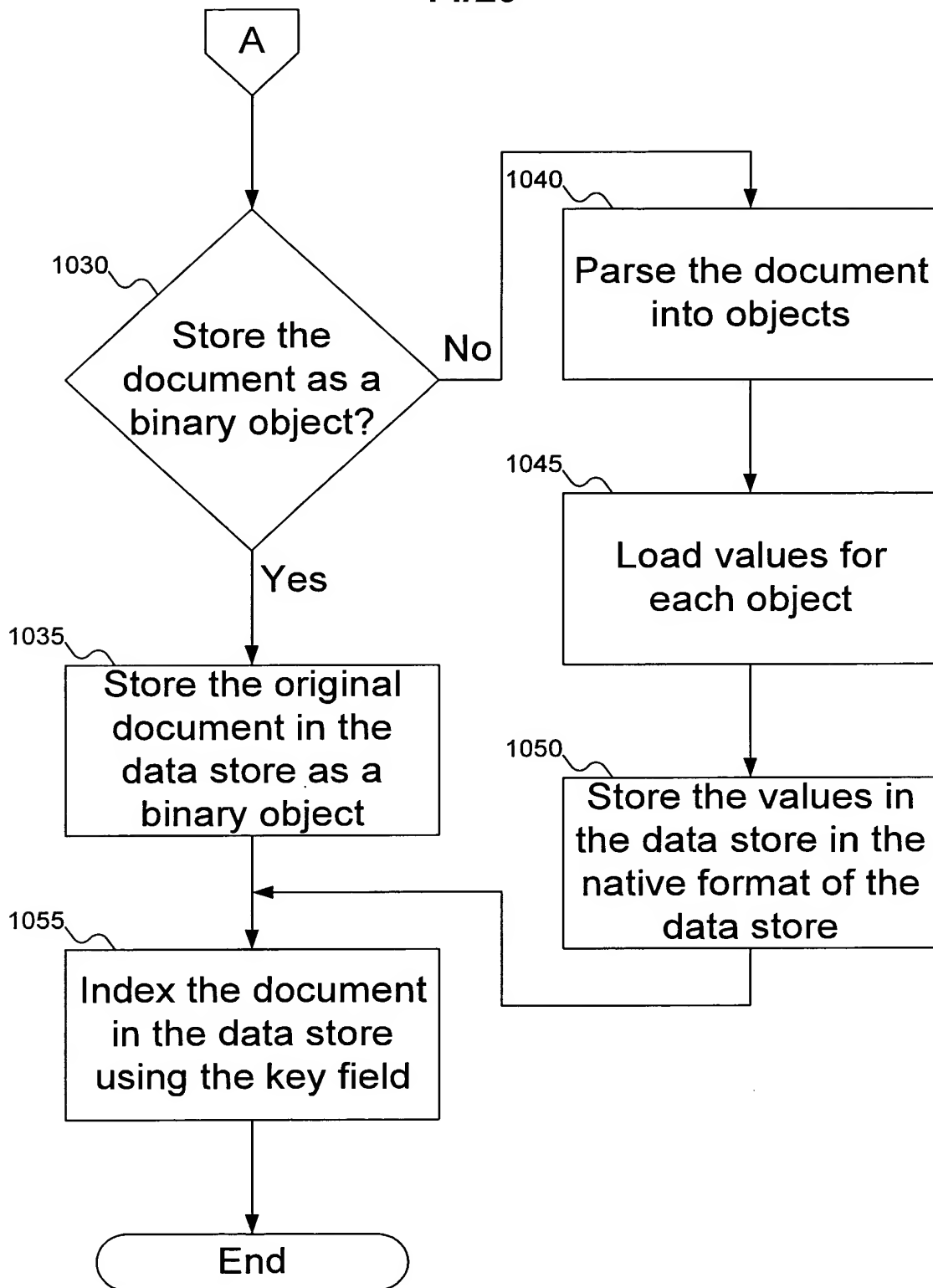


FIG. 10B

15/20

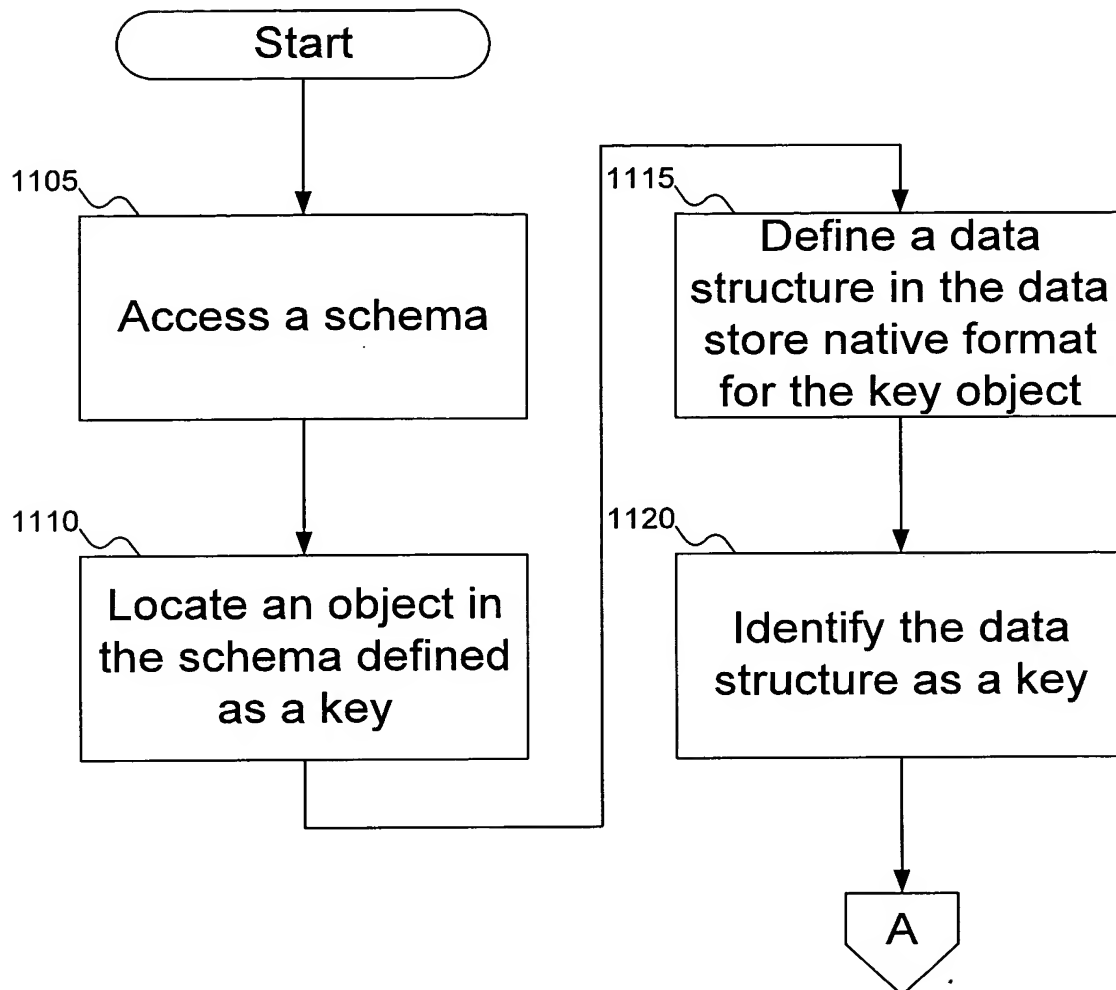


FIG. 11A

16/20

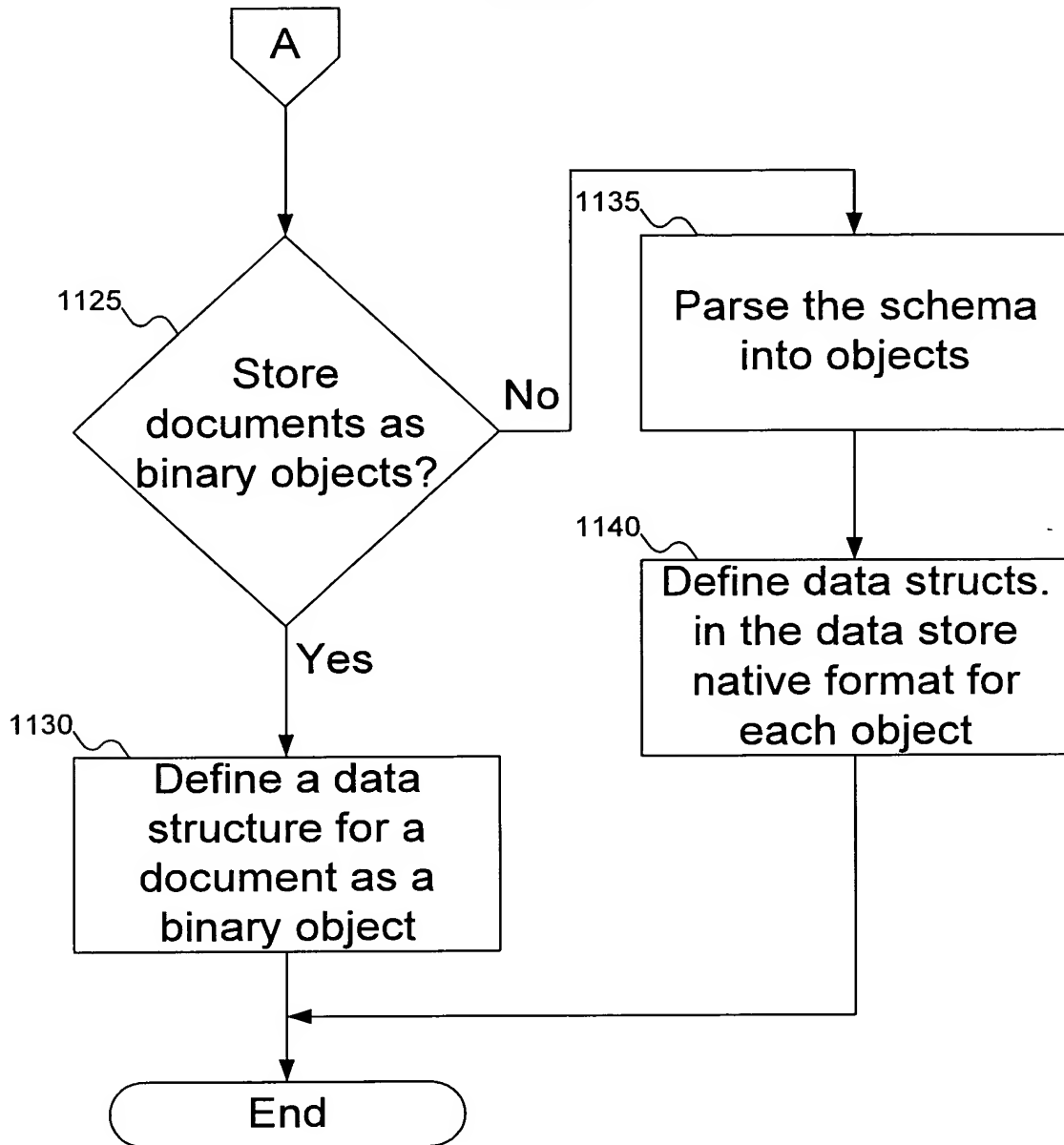


FIG. 11B

17/20

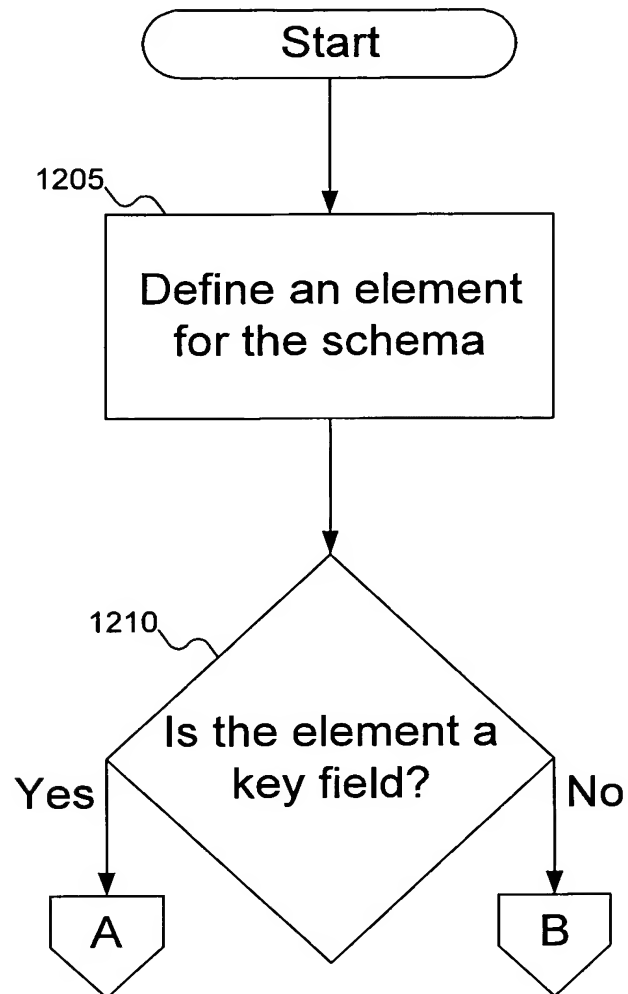


FIG. 12A

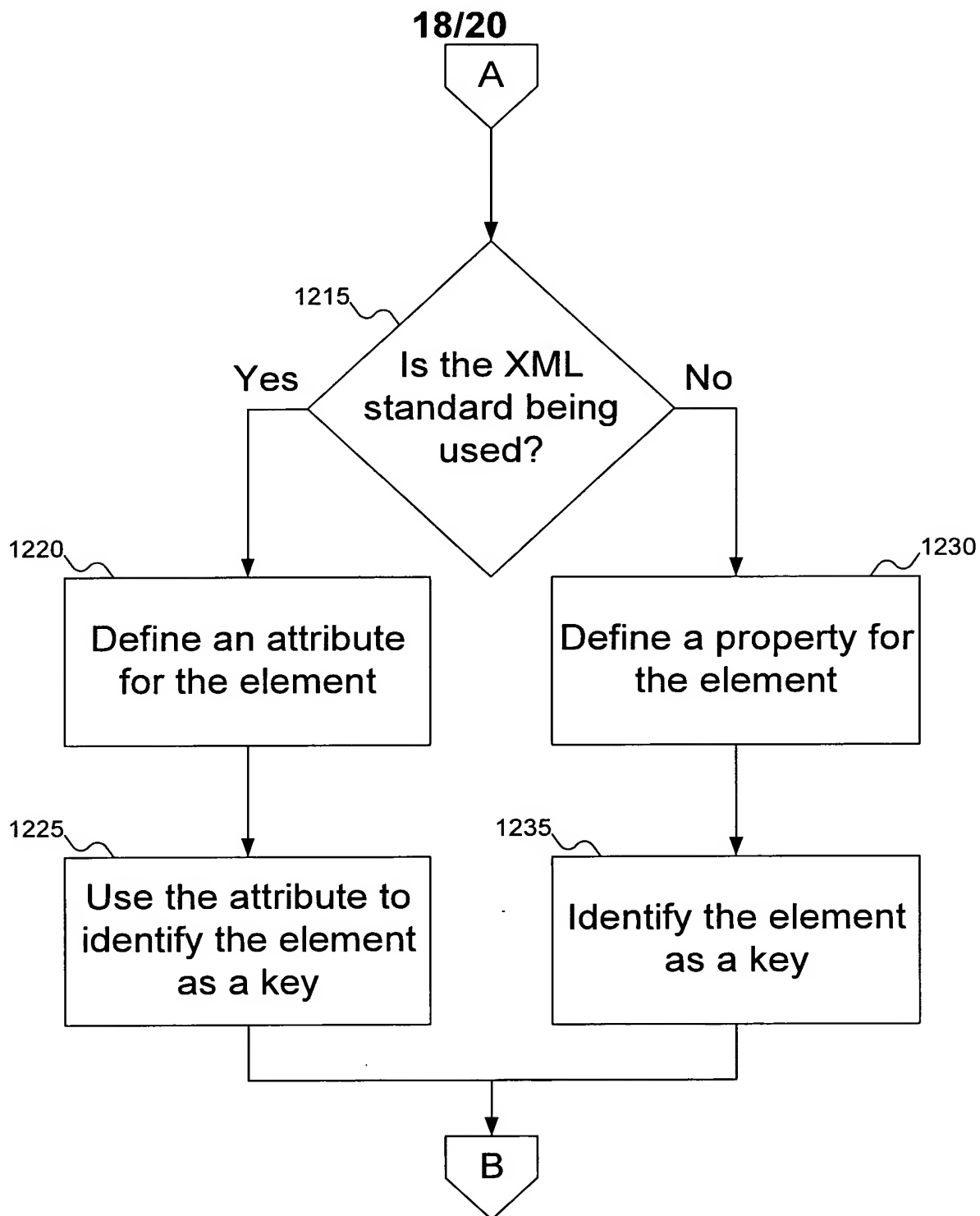


FIG. 12B

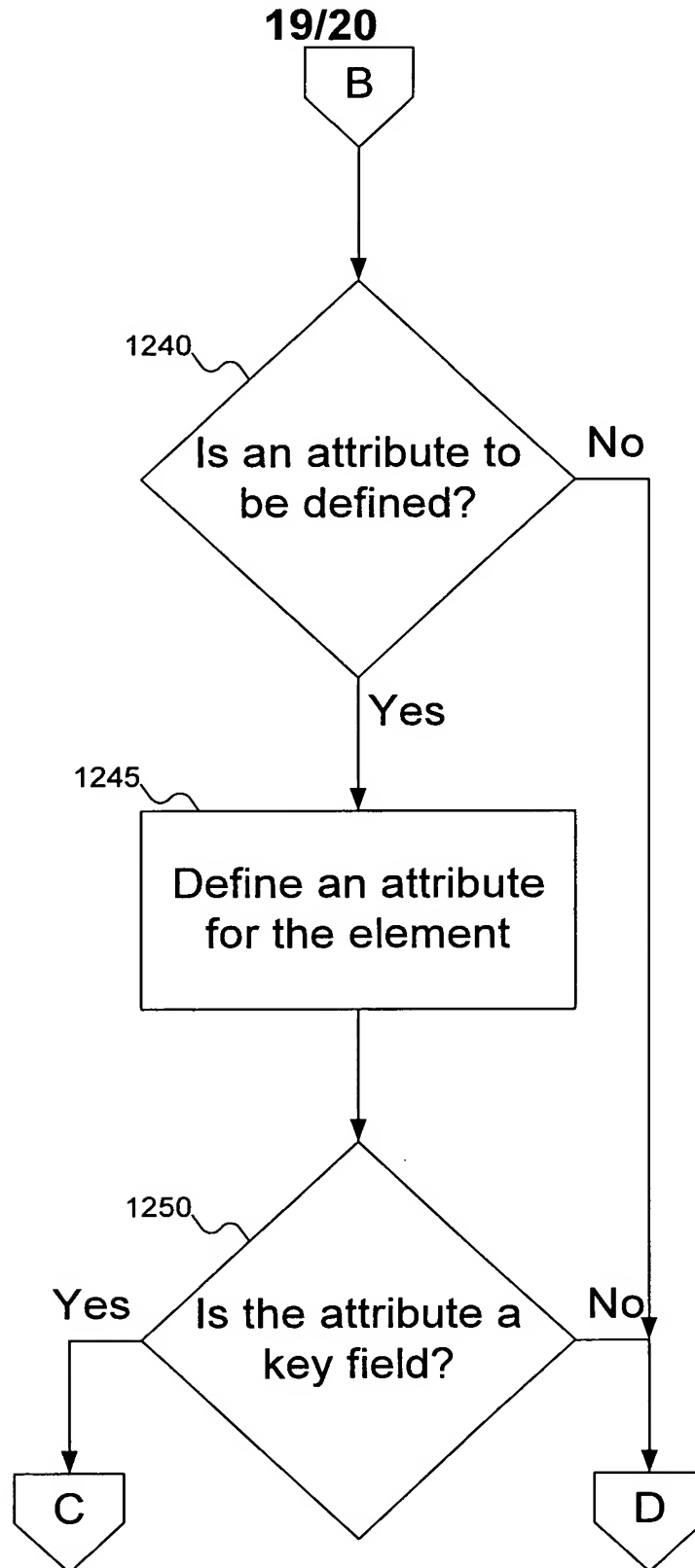


FIG. 12C

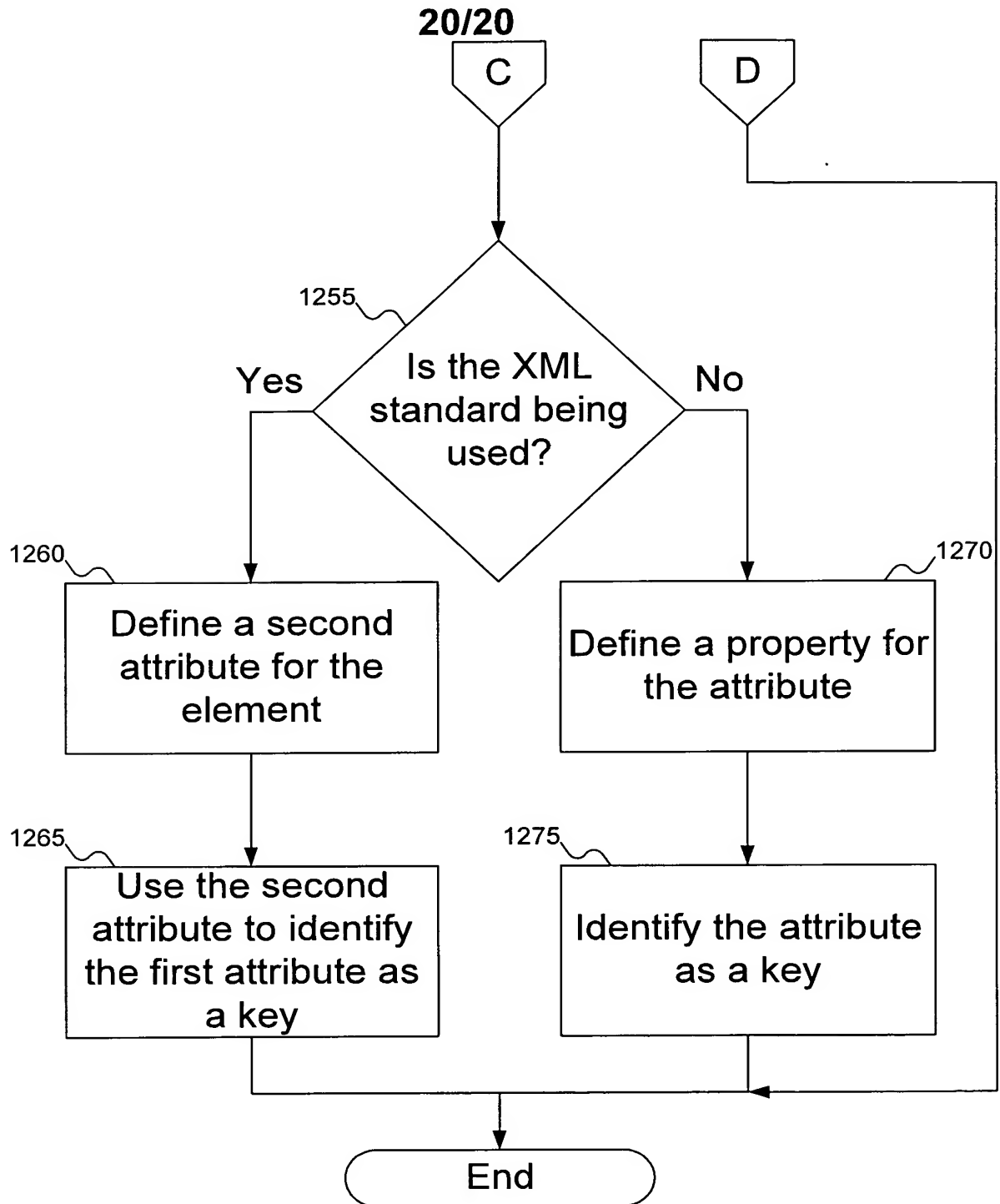


FIG. 12D